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PTO/SB/21 (09-06) Approved for use through 03/31/2007. OMB 0651-0031 U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number. **Application Number** 10/560,139 **TRANSMITTAL** Filing Date 9-Dec-2005 **FORM** First Named Inventor Avto TAVKHELIDZE Art Unit Examiner Name (to be used for all correspondence after initial filing) Attorney Docket Number 12093.PCT.US Total Number of Pages in This Submission **ENCLOSURES** (Check all that apply) After Allowance Communication to TC Fee Transmittal Form Drawing(s) Appeal Communication to Board Licensing-related Papers Fee Attached of Appeals and Interferences Appeal Communication to TC Petition Amendment/Reply (Appeal Notice, Brief, Reply Brief) Petition to Convert to a **Provisional Application** After Final **Proprietary Information** Power of Attorney, Revocation Change of Correspondence Address Affidavits/declaration(s) Status Letter Other Enclosure(s) (please Identify Terminal Disclaimer Extension of Time Request below): Copies of citations in IDS Request for Refund **Express Abandonment Request** CD, Number of CD(s) Information Disclosure Statement Landscape Table on CD **Certified Copy of Priority** Remarks Document(s) Reply to Missing Parts/ Incomplete Application Reply to Missing Parts under 37 CFR 1.52 or 1.53 SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT Firm Name Signature V. Printed name Avto TAVKHELIDZE Date 08 Dec 2006 Reg. No. CERTIFICATE OF TRANSMISSION/MAILING I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below: Signature Robert Flye 12/08/2006 Typed or printed name Date

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Avto TAVKHELIDZE

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Filing Date

Art Unit

First Named Inventor

INFORMATION DISCLOSURE STATEMENT BY APPLICA

Sheet

of.

(Use as many sheets as necessary) **Examiner Name Attorney Docket Number** 12093.PCT.US

			U. S. PATENT	DOCUMENTS	
Examiner Initials*	Cite No. <sup>1</sup>	Document Number  Number-Kind Code <sup>2 (if known)</sup>	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
			02 00 1065	Luffman	
	ļ	<sup>US-</sup> 3,169,200	02-09-1965	Huffman	
		<sup>US-</sup> 3,740,592-A	06-19-1973	Engdahl et al.	
		<sup>US-</sup> 4,011,582-A	03-08-1977	Cline et al.	
·		<sup>US-</sup> 4,063,965-A	12-20-1997	Cline et al.	
		<sup>US-</sup> 4,869,923	09-26-1989	Yamazaki	
		<sup>US-</sup> 5,094,915	03-10-1992	Subramaniam	
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		<sup>US-</sup> 5,578,901	11-26-1996	Blanchet-Fincher et al.	
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		<sup>US-</sup> 5,602,439	02-11-1997	Valone	
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		US-			
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		FORE	<b>IGN PATENT DOCU</b>	JMENTS		
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document  Country Code <sup>3</sup> "Number <sup>4</sup> "Kind Code <sup>5</sup> ( <i>if known</i> )	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T <sup>6</sup>
		JP-40-7094787-A	04-07-1995	Tokai Carbon Co.		
		JP-40-7196371-A	08-01-1995	Tonen Corp.		
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Examiner		Date	
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NON PATENT LITERATURE DOCUMENTS					
Examiner Initials*	Cite Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate) the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume number(s), publisher, city and/or country where published.				
•		GEIS et al., "Electron filed emission from diamond and other carbon materials after H2, 02, and Cs treatment", Applied Physics Letters, Aug. 28, 1995, pp. 1328-1330, Volume 67, Number 9, American Institute of Physics.			
		NAKAJIMA et al., "Generation of ballistic electrons in nancrystalline porous siliconlayers and its appliction to a solid-state plannar luminescent device", Applied Physics Letters, Sep. 23, 2002, pp. 2472-2474, Volume 81, Number 13, American Institute of Physics.			
		OKANO et al., "Low-threshold cold cathodes made of nitrogen-doped chemical-vapour-deposited diamond", NATURE, May 9, 1996, pp. 140-141, Volume 381.			
.,		OZAKI et al., "The Relationship between Photoconduction Effects and Luminescent Properties of Porous Silicon", Japanese Journal of Applied Physics, Feb. 1995, pp. 946-949, Volume 34, Part 1, Number 2B.			
		ZENG et al., "Mean Free Path and Apparent Thermal Conductivity of a Gas in a Porous Medium", Journal of Heat Transfer, Aug. 1995, pp. 758-761, Volume 117, ASME.			

Examiner					
Signature		Considered	•		
*EVALAINED. 1-30-136					

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